

FIG. 1

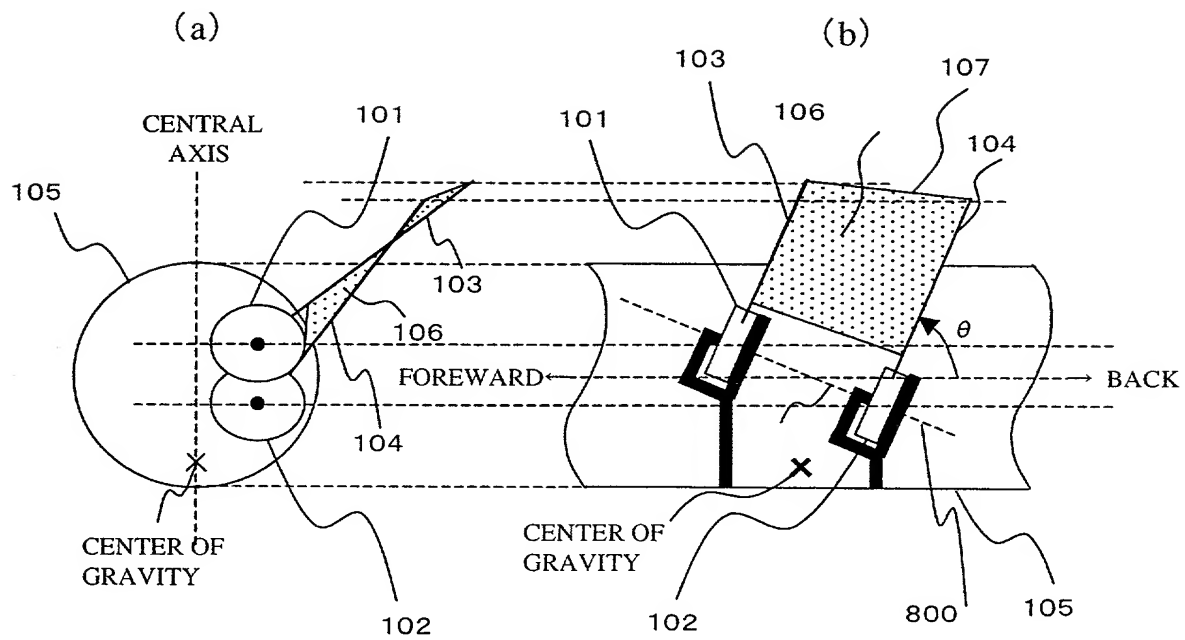
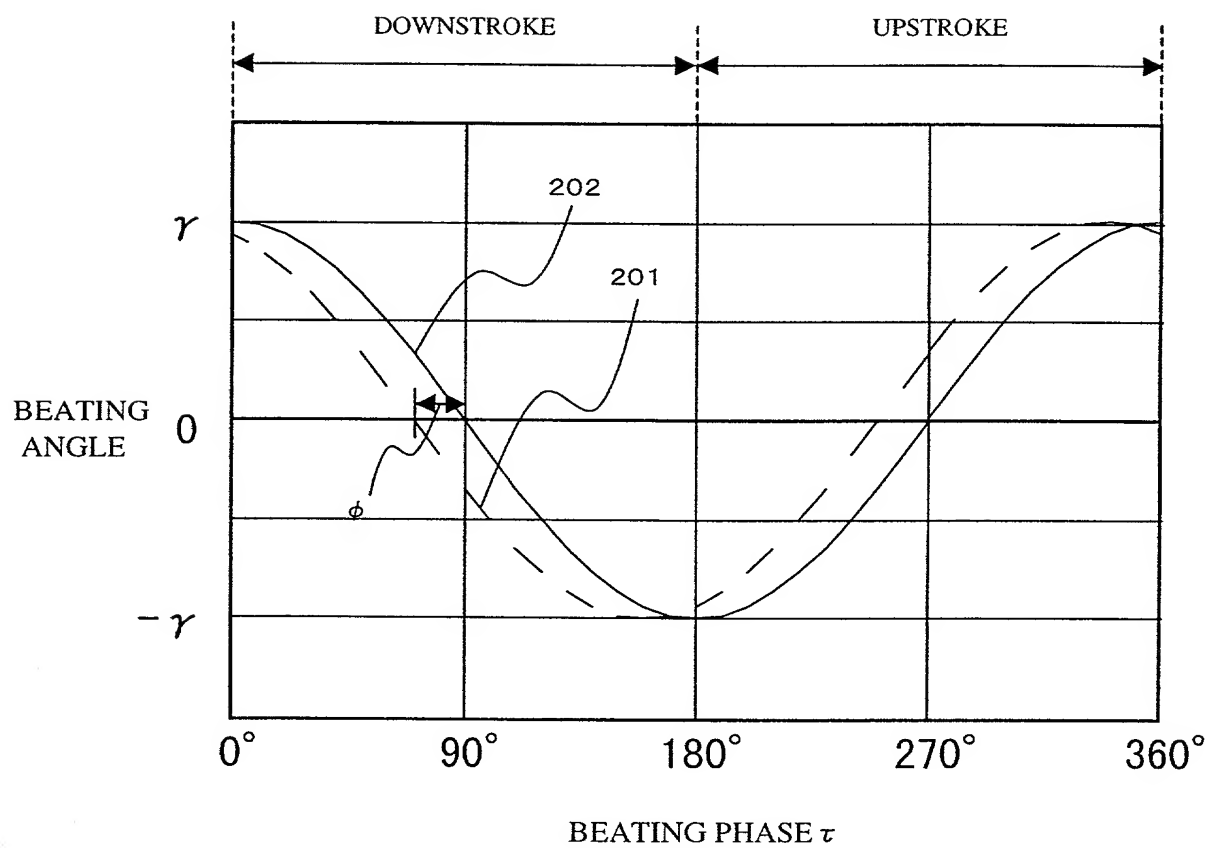


FIG.2



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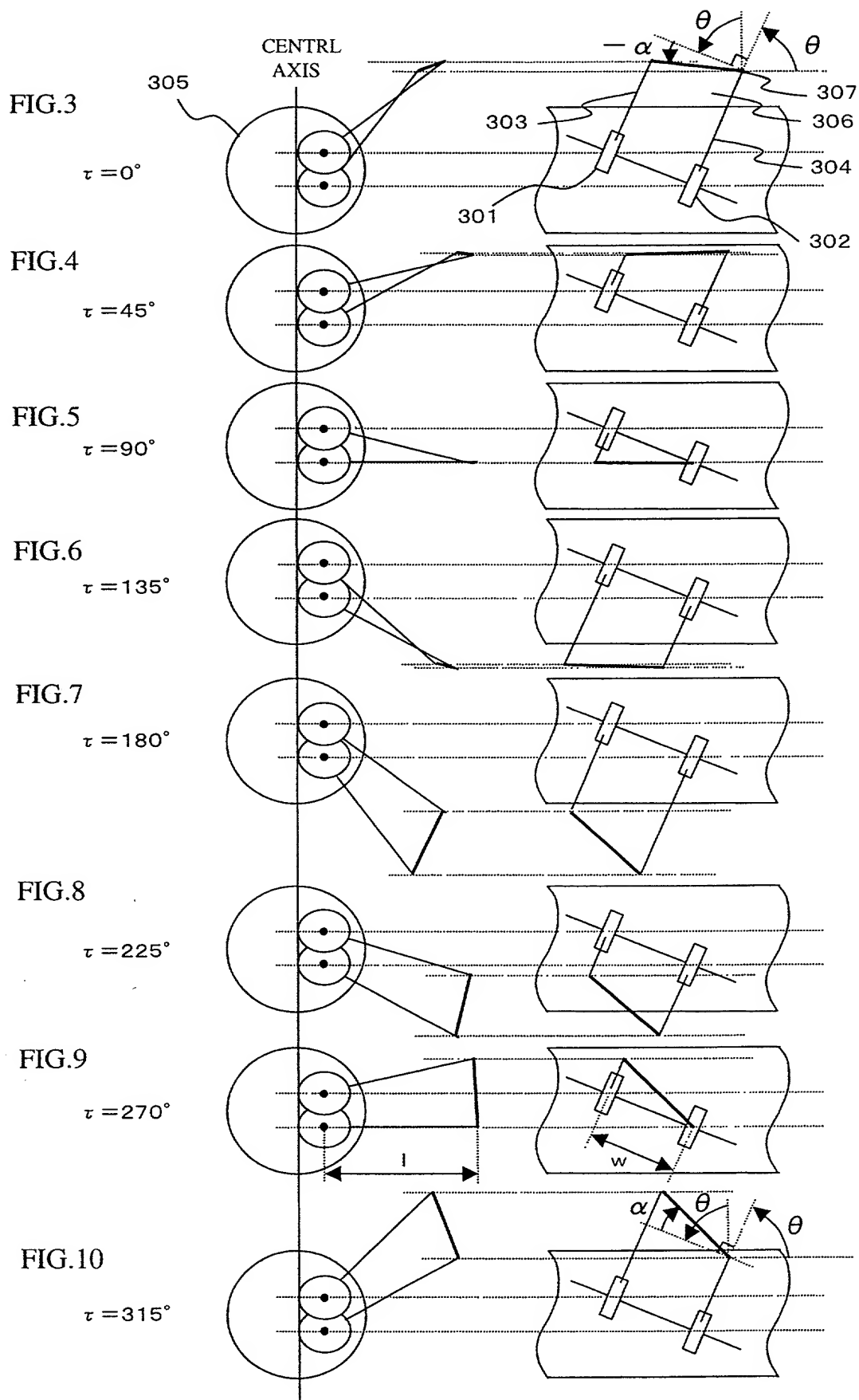


FIG.11

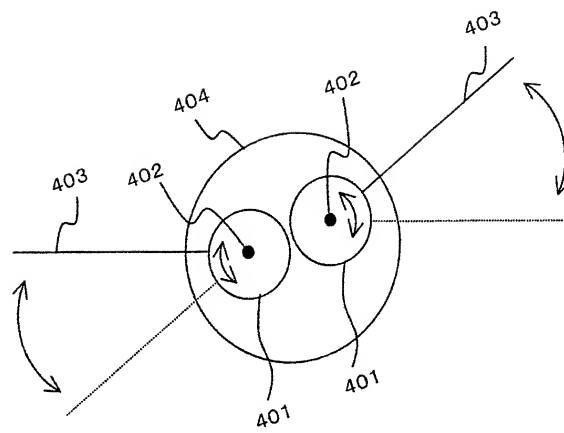


FIG.12

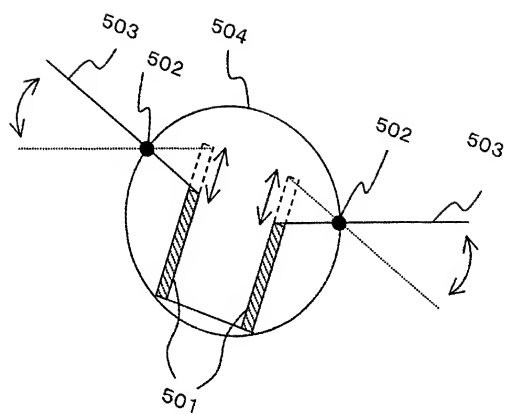
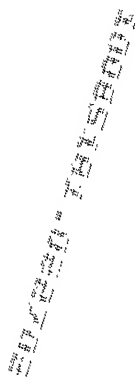


FIG.13

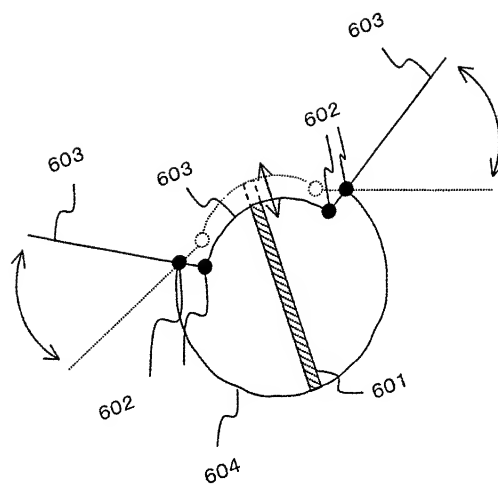


FIG.14

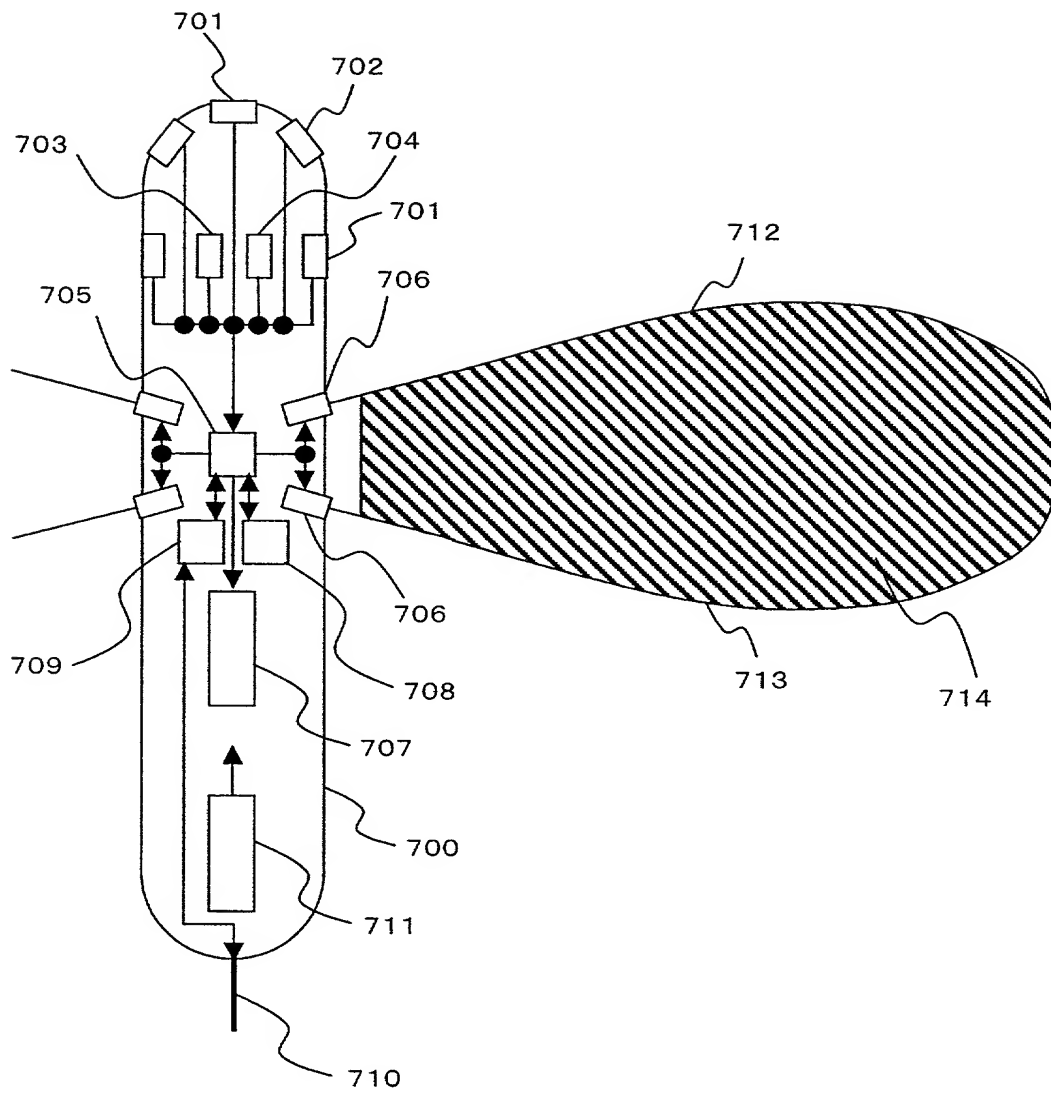


FIG.15

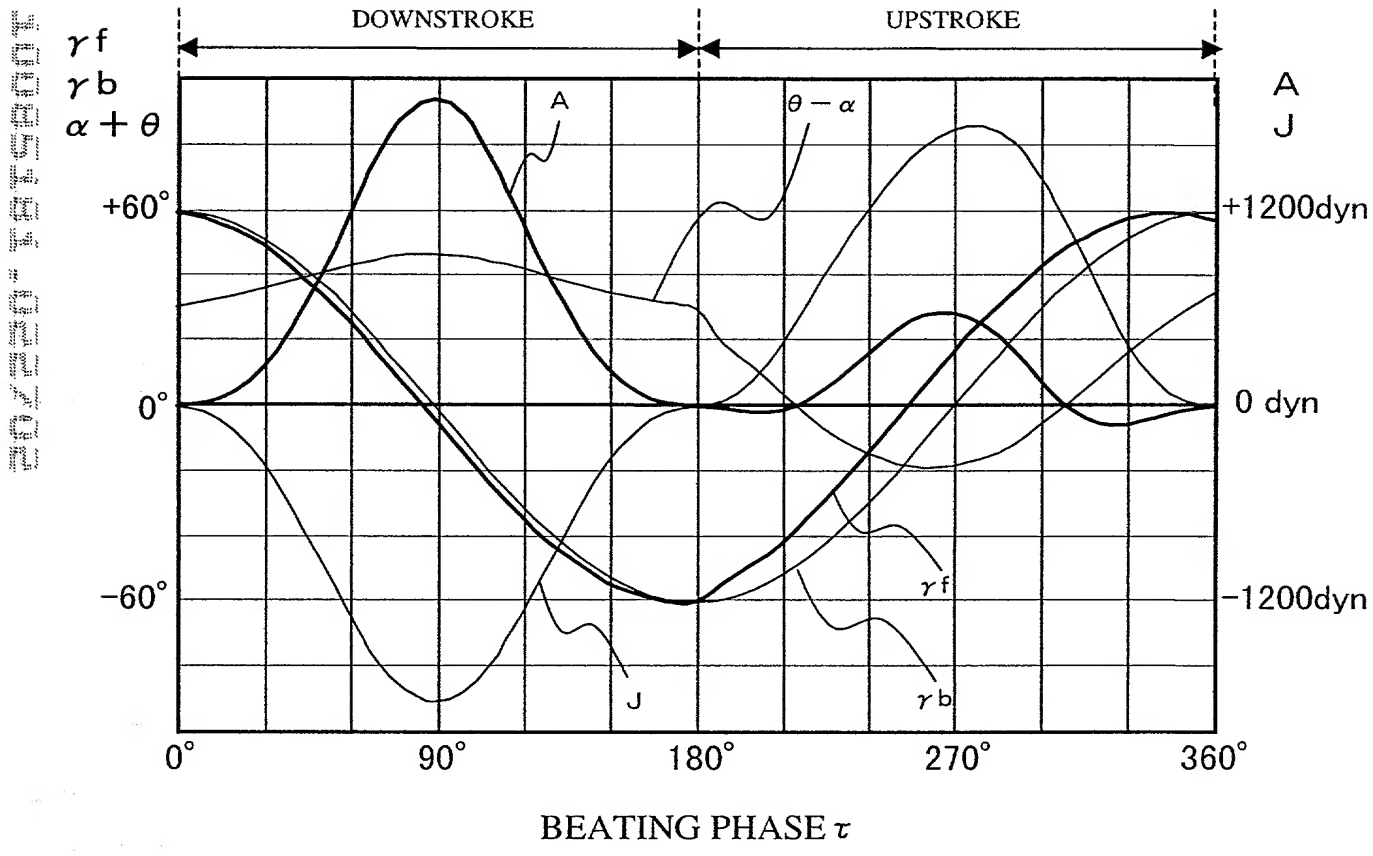
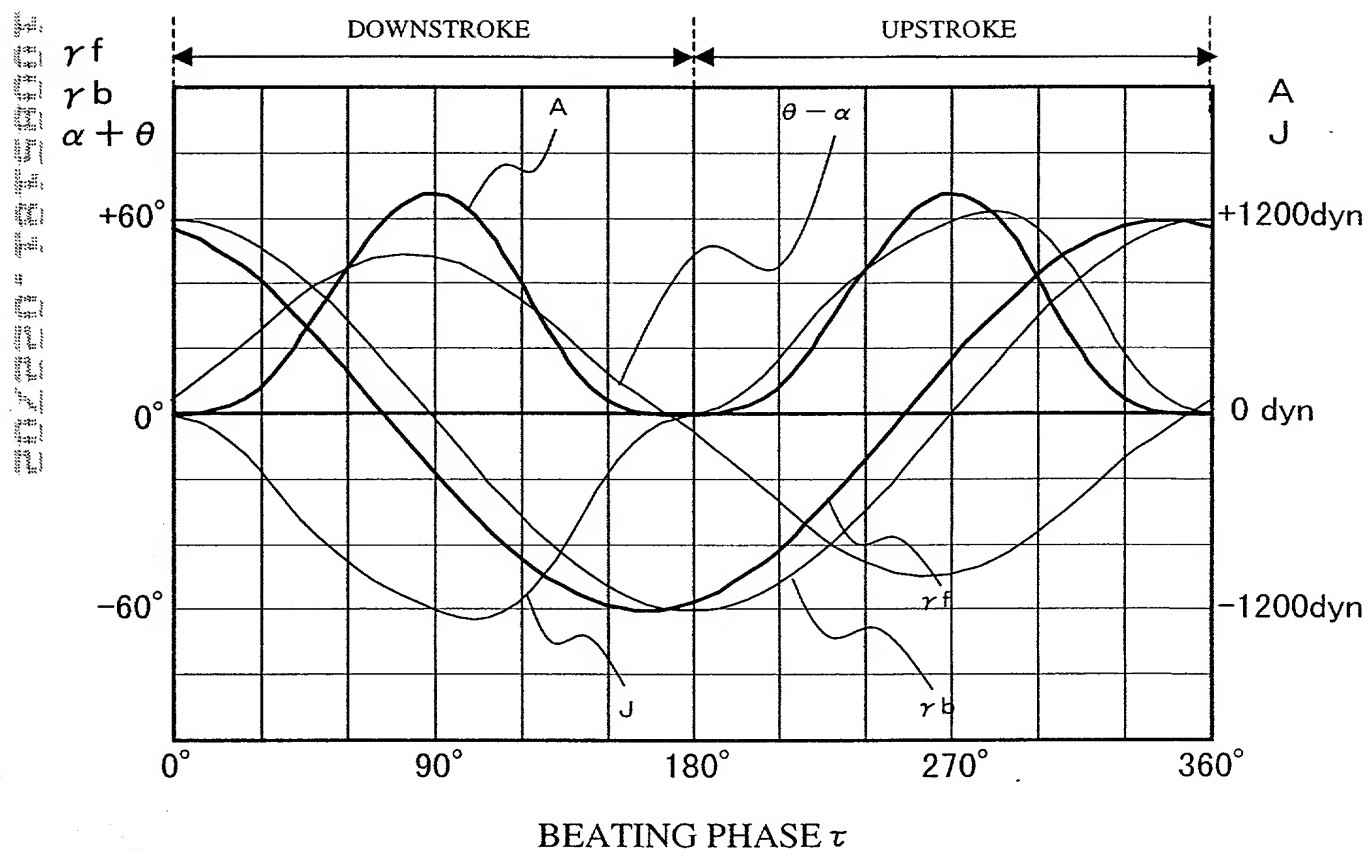


FIG.16



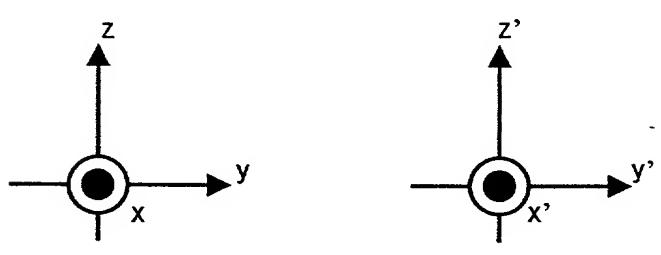
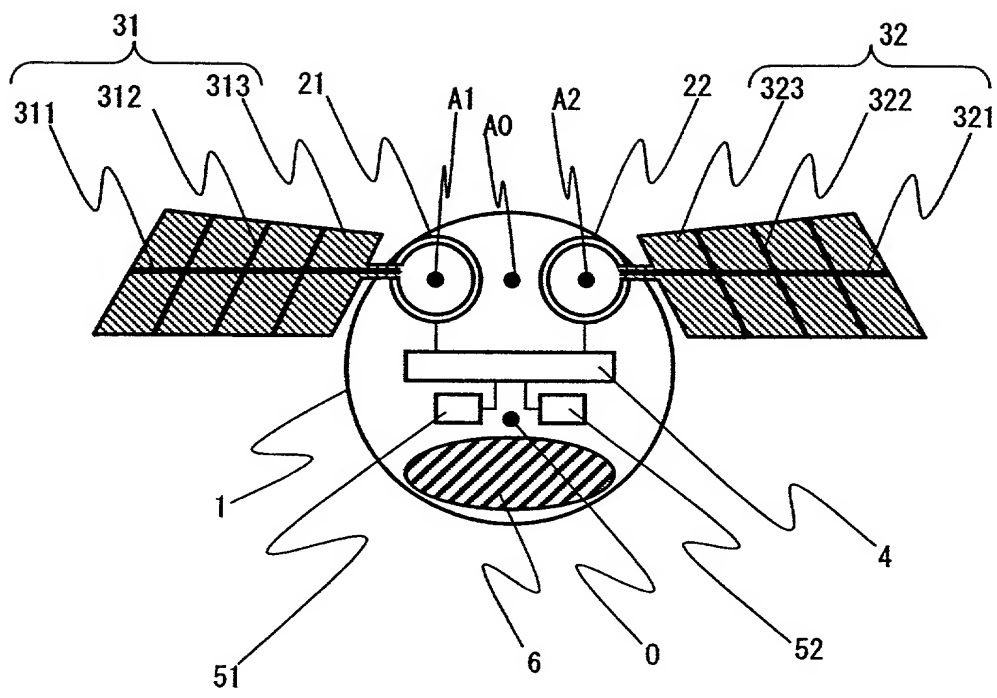


FIG. 17

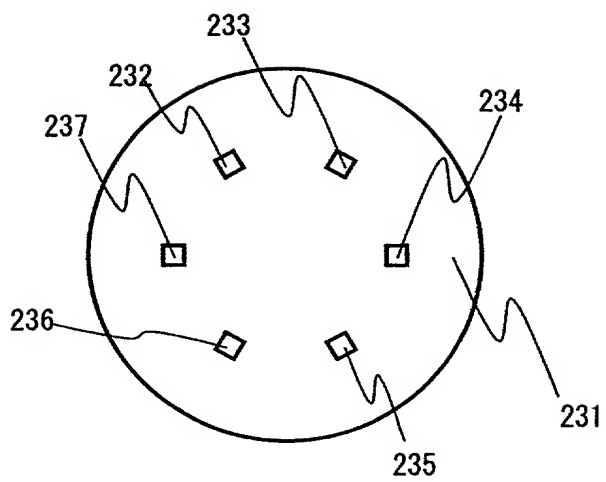


FIG. 18

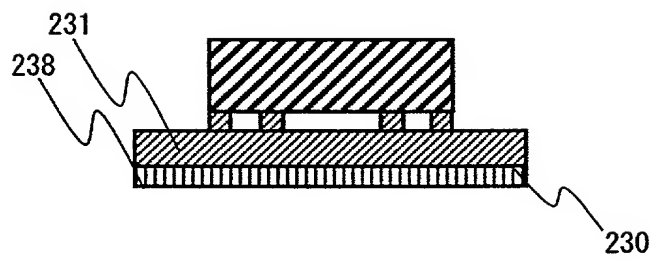


FIG. 19

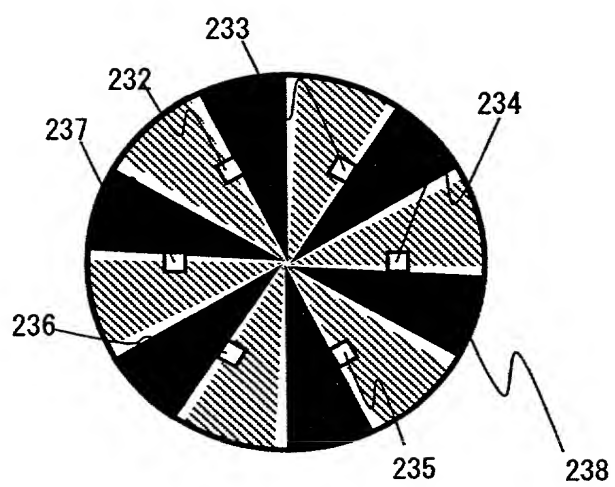


FIG. 20

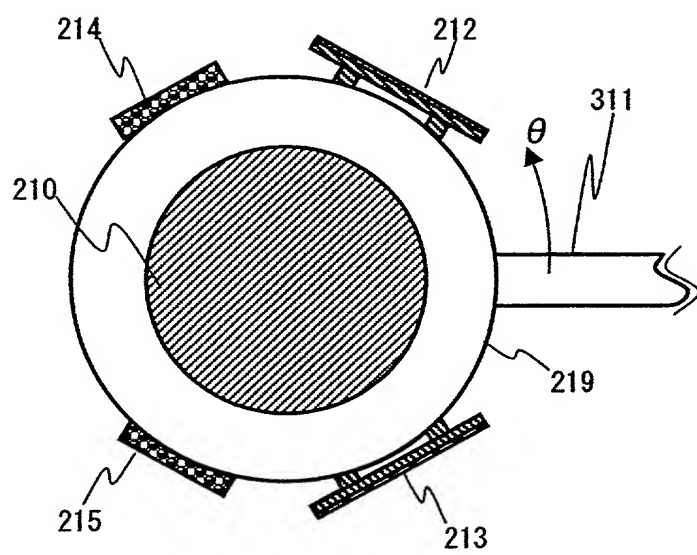


FIG. 21

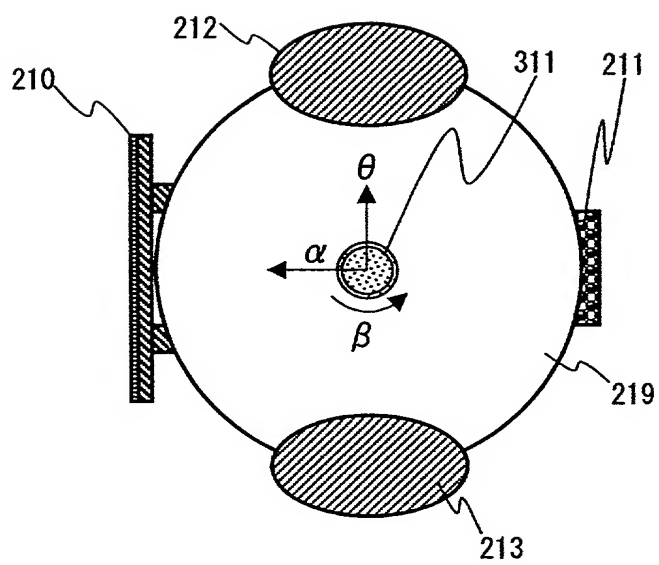


FIG. 22

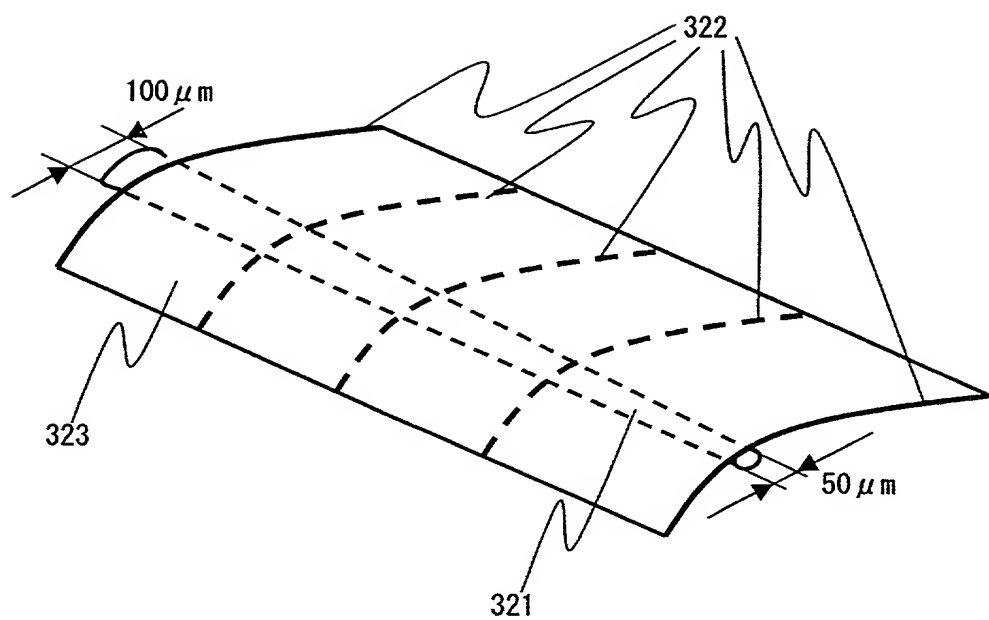


FIG. 23

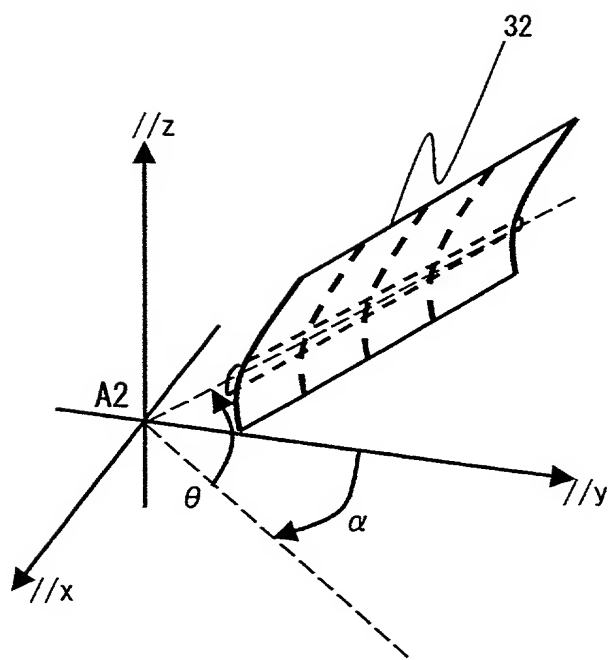


FIG. 24

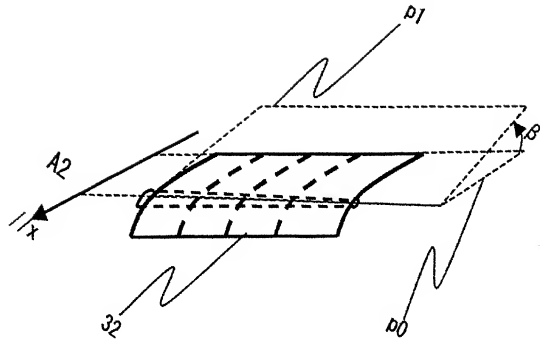
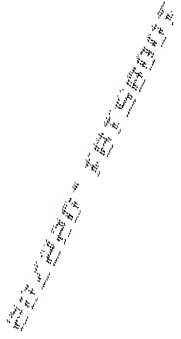


FIG. 25

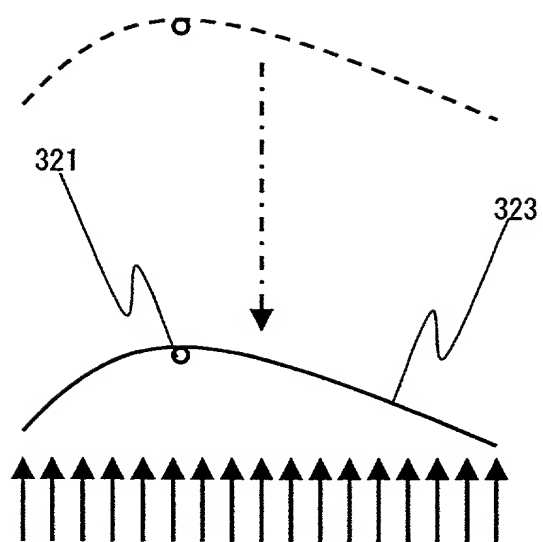


FIG. 26

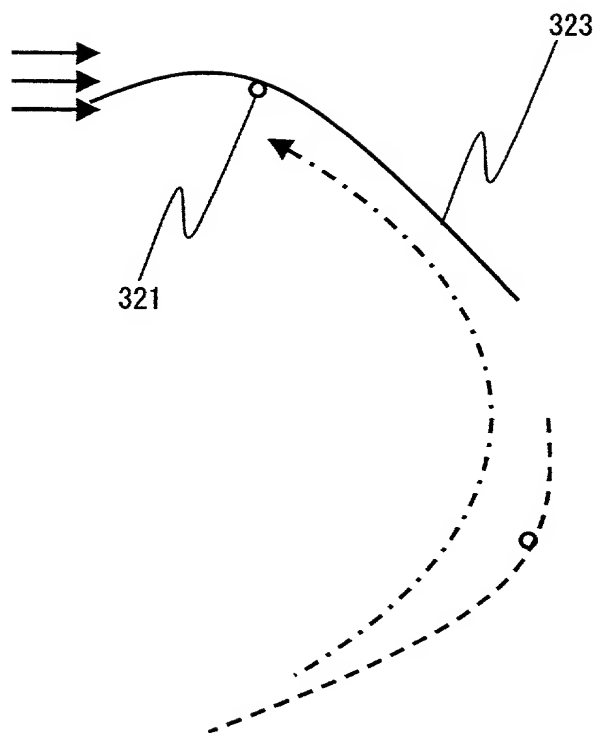


FIG. 27

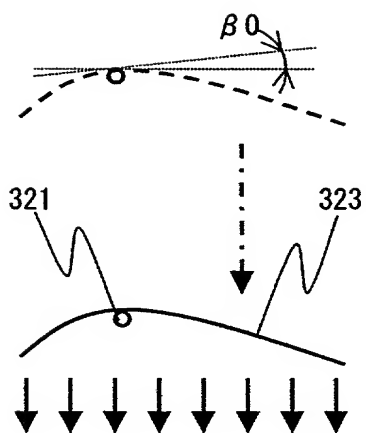


FIG. 28

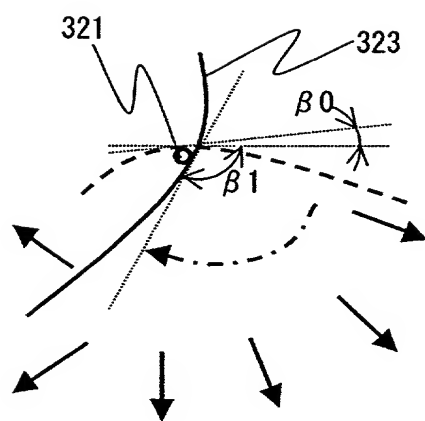


FIG. 29

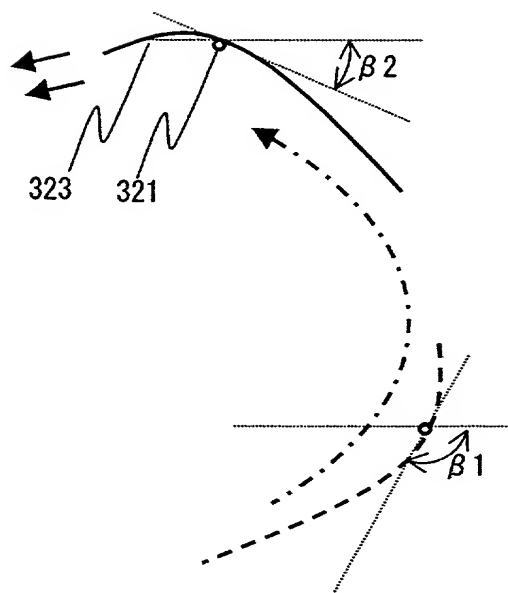


FIG. 30

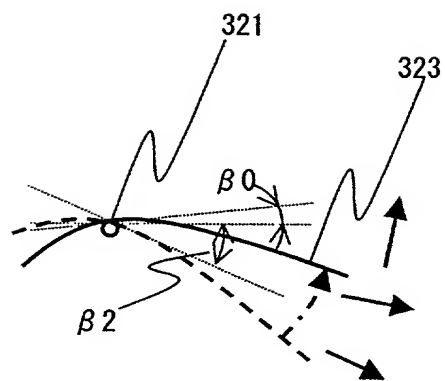


FIG. 31

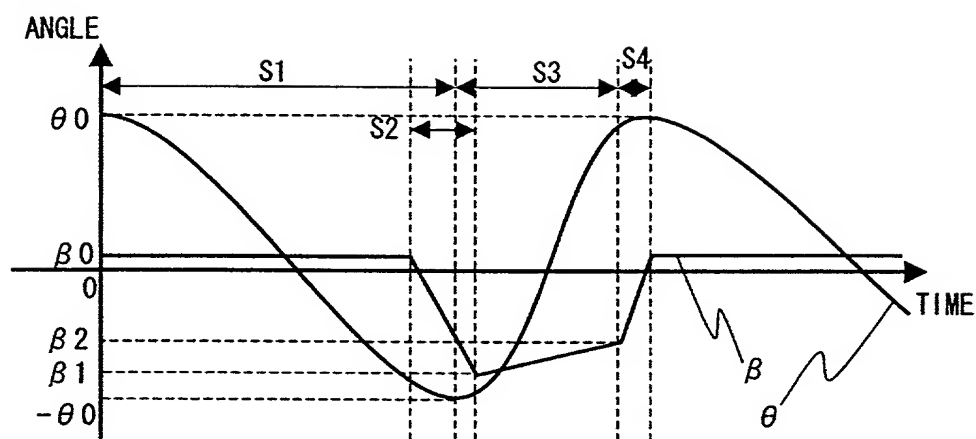


FIG. 32

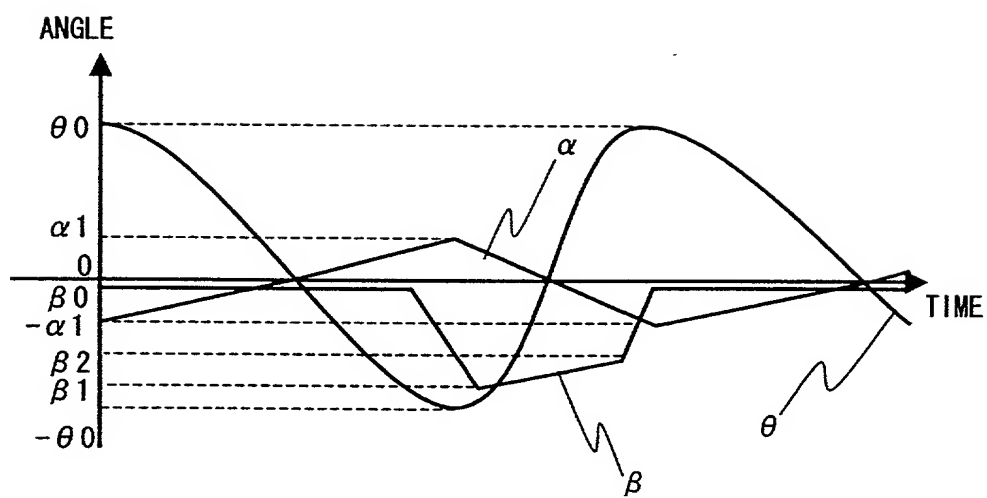


FIG. 33

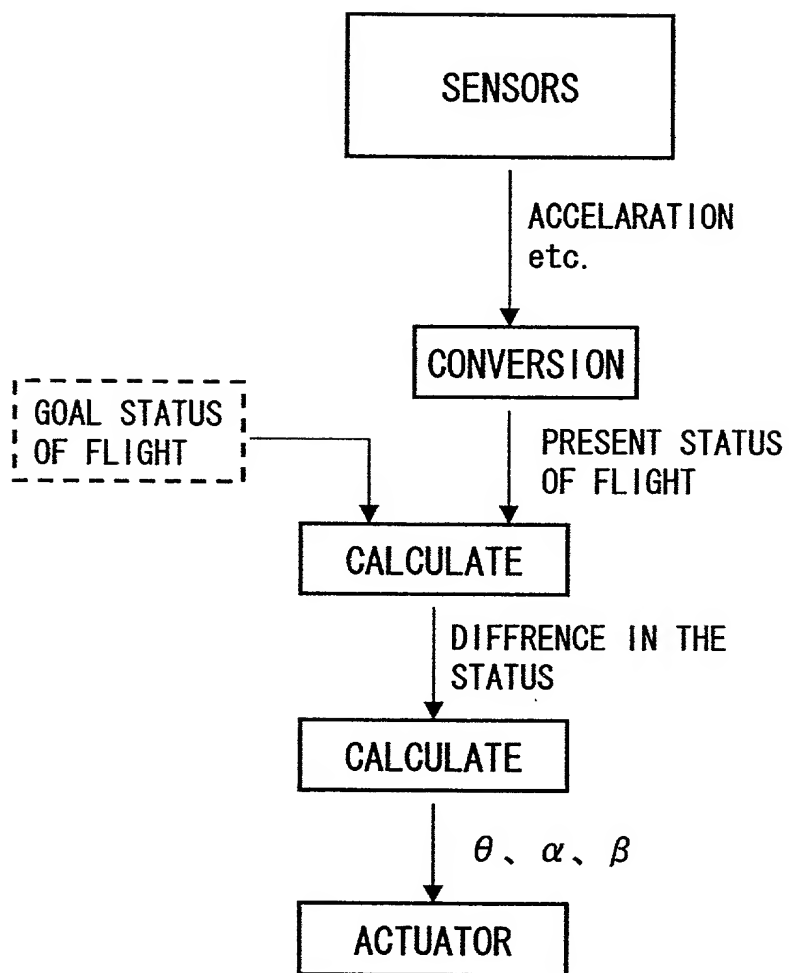


FIG. 34

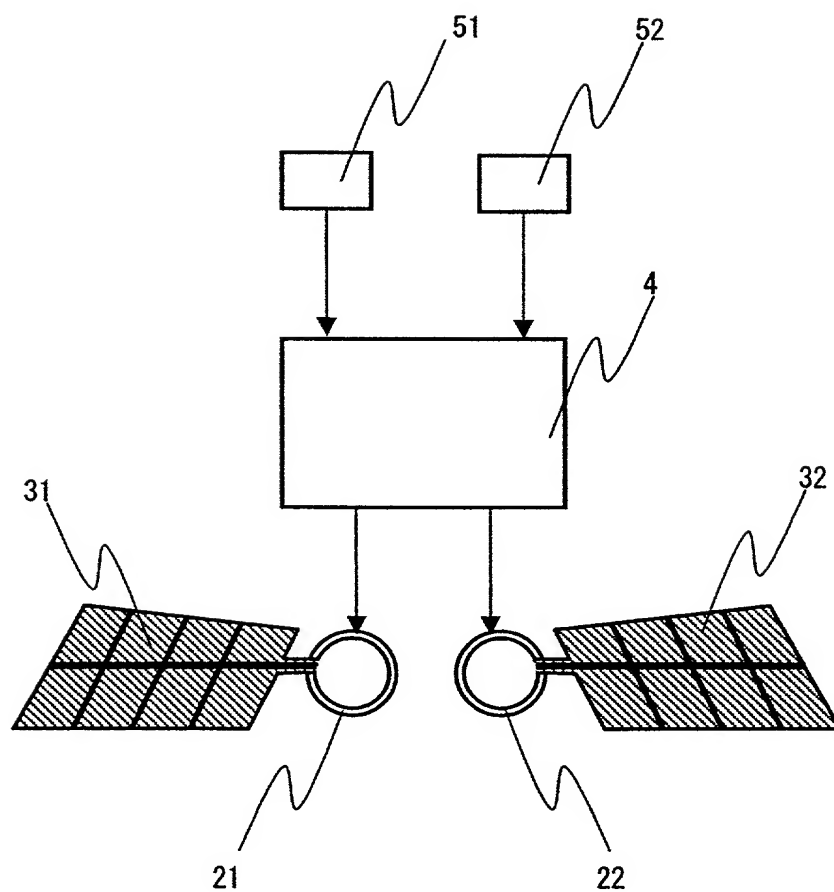


FIG. 35

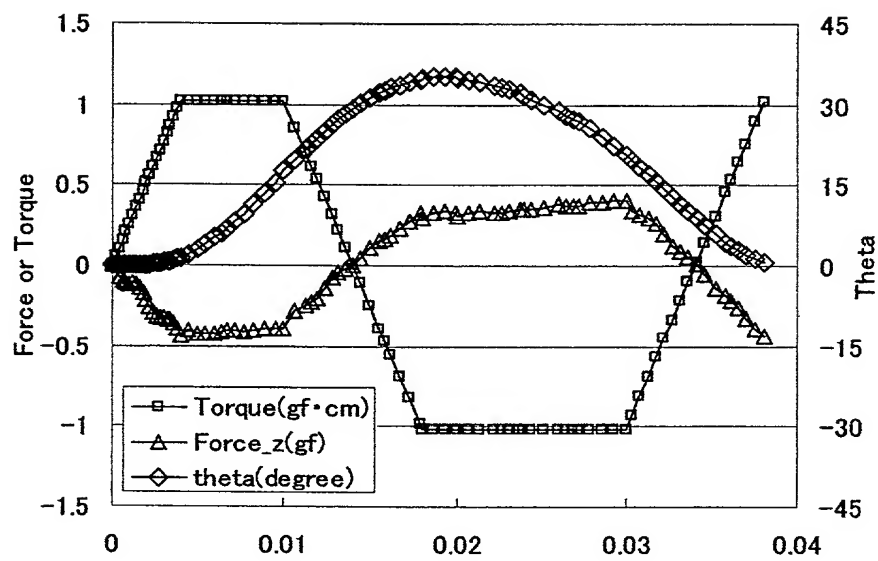


FIG. 36

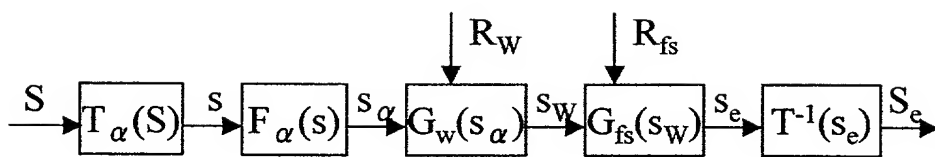


FIG. 37

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		x''	$+x''$	$-z''$	$+z''$	$-\theta_y''$	$+\theta_y''$
S1	stroke $\theta \uparrow$			●			
	stroke $\theta \downarrow$				●		
	$-d\theta/dt \uparrow$			●			
	$-d\theta/dt \downarrow$				●		
	$-d\alpha/d\theta > d\alpha_{th}$	●					
	$-d\alpha/d\theta < d\alpha_{th}$		●				
	β is about vertical to stroke direction.			●			
	β is not vertical to stroke direction.				●		
	$\beta > 0$	●					
	$\beta < 0$		●				
S2	$-d\beta/dt \uparrow$	●		●		●	
	$-d\beta/dt \downarrow$		●		●		●
S3	stroke $\theta \uparrow$				●		
	stroke $\theta \downarrow$			●			
	$d\theta/dt \uparrow$				●		
	$d\theta/dt \downarrow$			●			
	$d\alpha/d\theta > d\alpha_{th}$		●				
	$d\alpha/d\theta < d\alpha_{th}$	●					
	β is about vertical to stroke direction.				●		
	β is not vertical to stroke direction.			●			
S4	$d\beta/dt \uparrow$	●			●		●
	$d\beta/dt \downarrow$		●	●		●	

FIG. 38

	RIGHT ACTUATOR		LEFT ACTUATOR	
	DRIVING FREQ.	MOTION PATTERN	DRIVING FREQ.	MOTION PATTERN
UP	35Hz	B	35Hz	B
DOWN	25Hz	B	25Hz	B
GO FORWARD	30Hz	A	30Hz	A
HOVER	30Hz	B	30Hz	B
TURN RIGHT	30Hz	B	30Hz	A
TURN LEFT	30Hz	A	30Hz	B

FIG. 39

FIG.40

